Application No.: 10/706,458

Attorney Docket No.: 06882.0090-05000

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application. Please cancel claims 1-52 without prejudice or disclaimer.

1-52. (Canceled)

53. (Original) A meter for use in combination with a test strip, said test strip including a working electrode, a counter electrode, a pair of fill-detect electrodes, and an

auto-on conductor, said meter comprising:

a strip connector for receiving said test strip;

a processor;

a memory,

a plurality of machine instructions stored in said memory and executable by said

processor for performing a test strip sequence;

a data acquisition system, controlled by said processor, for applying at least a first voltage between said working and counter electrodes and measuring any resulting current flowing between said working and counter electrodes, for applying at least a second voltage between said fill-detect electrodes and measuring any resulting current flowing between said fill-detect electrodes, and for measuring a voltage drop across auto-on conductor, when said test strip is inserted in said strip connector, said data acquisition system including at least one digital-to-analog converter and at least one analog-to-digital converter.

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54. (Original) The meter of claim 53, wherein said data acquisition system includes a wake-up circuit, said wake-up circuit detecting said auto-on conductor when said test strip is inserted in said strip connector and responsively bringing said data acquisition system from a sleep mode into an active mode.

55. (Original) The meter of claim 53, wherein said test strip sequences comprises:

applying an assay voltage between said working and counter electrodes and making at least one measurement of the resulting current flowing between said working and counter electrodes.

56. (Original) The meter of claim 55, wherein said test strip sequence further comprises:

detecting said blood sample in said sample chamber by applying a fill-detect voltage between said fill-detect electrodes and measuring a fill-detect current flowing between said fill-detect electrodes.

57. (Original) The meter of claim 56, wherein said test strip sequence further comprises:

detecting said blood sample at a first location in said sample chamber by applying a drop-detect voltage between said working and counter electrodes and measuring a drop-detect current flowing between said working and counter electrodes.